

FIG. 1A





VALIDATION - PHASE 1

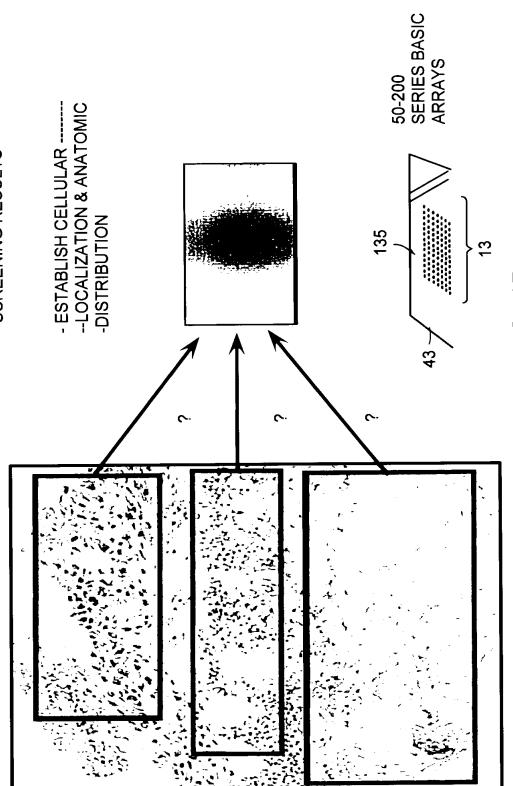
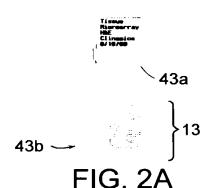
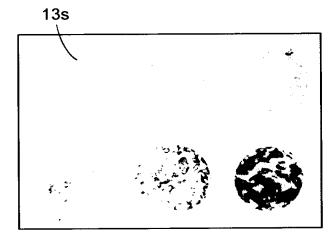


FIG. 1B







SIX TISSUE ELEMENTS FROM A PathWorkTM
BreastArray BR50 STAINED WITH CK7
SHOWING SELECTIVE STAINING (400X). TISSUE
ELEMENTS ARE 0.6mm DIAMETER AND SPACED
0.3mm APART.

FIG. 2C

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b 00000000

c 00000000

d 00000000 A

e 00000000

f 00000000

a 00000000 B

00000000

FIG. 2B





FIG. 2D

SAMPLE DATA SHEET INFORMATION (FOR ONE TISSUE ELEMENT, LOCATED AT A1) PROVIDED WITH EVERY PathWorks™ Tissue MicroArray

CAT. # BR50

LOT # 07

COORDINATES: A1a MITOSES: 1
ORGAN: BREAST PT: 1

CATEGORY: BREAST CANCER, DUCTAL pN: 0

SEX: F LN POS 0

SEX: F LN POS U

AGE: 67 LN ALL 23

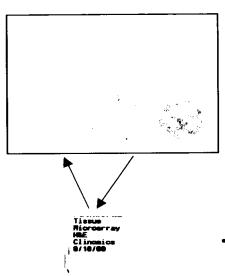
BRE GRADE: G2 TUMOR DIA. 15

TUBULI: 3 SURGERY: MASTECTOMY

POLYMORPHY: 3

FIG. 2E





TISSUE MicroArrays

- DEVELOPMENT OF POPULATION DATABASES
- HIGH-THROUGHPUT IN SITU ANALYSIS OF DNA, RNA AND PROTEIN
- DISCOVERY OF DIAGNOSTIC AND PROGNOSTIC CORRELATIONS
- TARGET PRIORITIZATION

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					4:18 PM
	\$	Add New	Patriology Delete Existing Pathology Save Record	Sample Data	
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NEPOSITC	-	▼ Pathology #	te [590]	Sample Type S	Clino
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2 [6	ec	Specimen Data	Received 10/11 Metastasi Lung Radiation 0		of 4771
iorepositry Application - [View Insert Format Recr			Age at Collectic Con Medicatio Con Medicatio Chemo Date R/20/19 TubeType Conical	Description Breast cancer Breast cancer Breast cancer	
	- 	Pathology # Lookup	Collection Date 6/19/1990 Medication CMF Chemotherapy Yes PrimarySite Breast (1)	ClinomicsID Descr 000002841 000007489 Brea 000007491 Brea 000007492 Brea	4
FIG. 4A Control Con	3				Reco

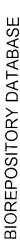
DATA ENTRY

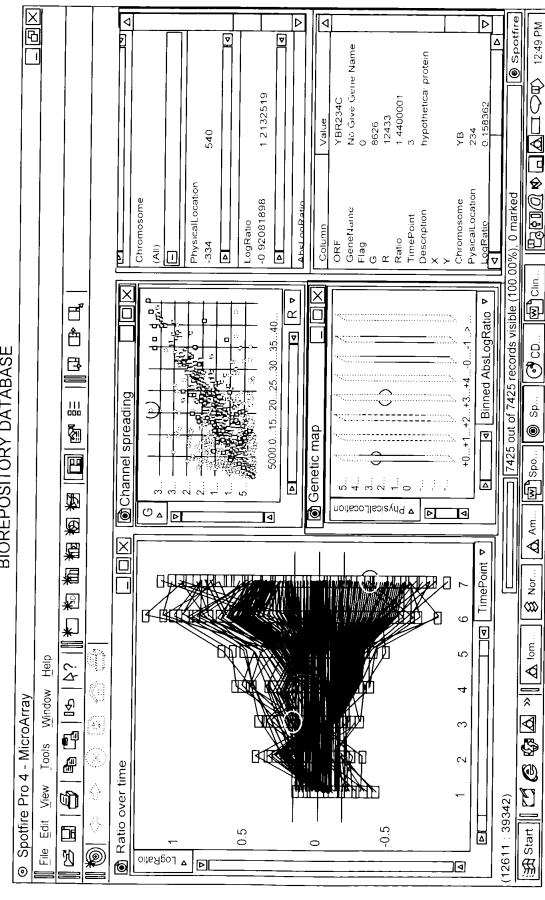


BIOREPOSITORY DATABASE

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SORTING AND SELECTION OF PATIENT POPULATIONS

CLUSTER ANALYSIS

DEVELOPMENT OF EXPRESSION PROFILES VS MEDICAL DATA

FIG. 4C



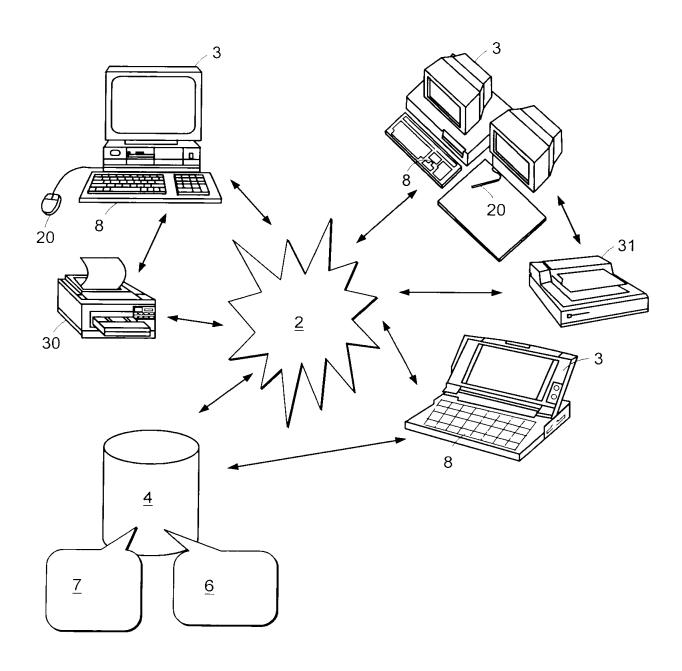
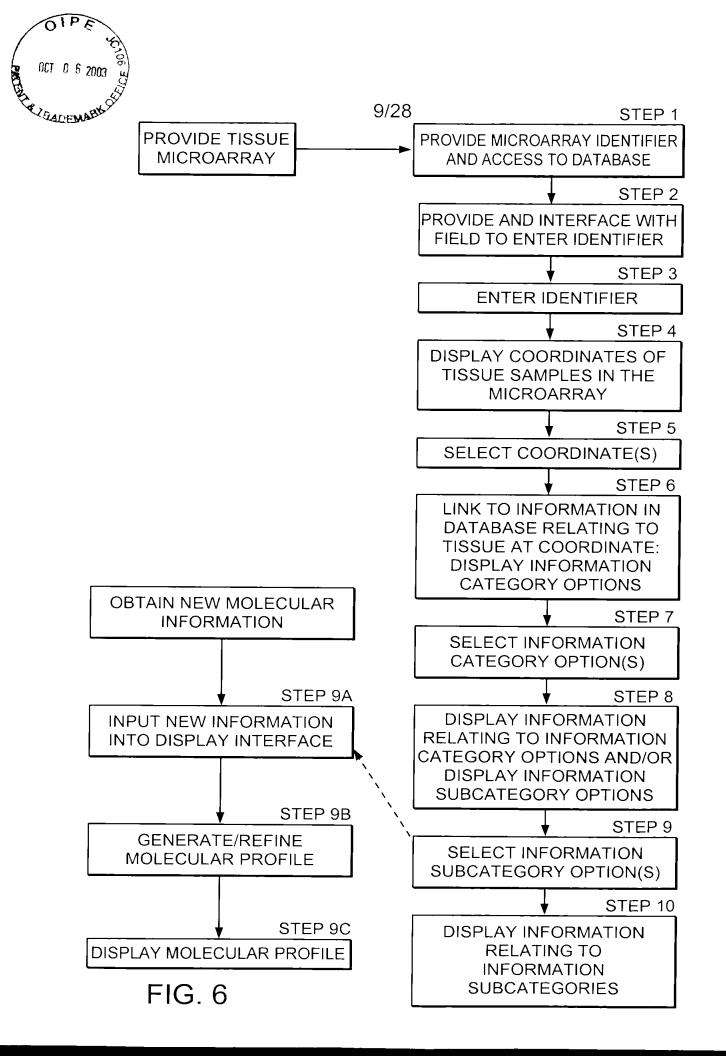
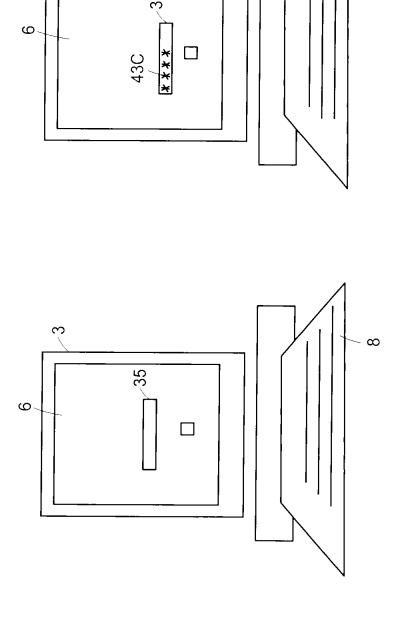


FIG. 5





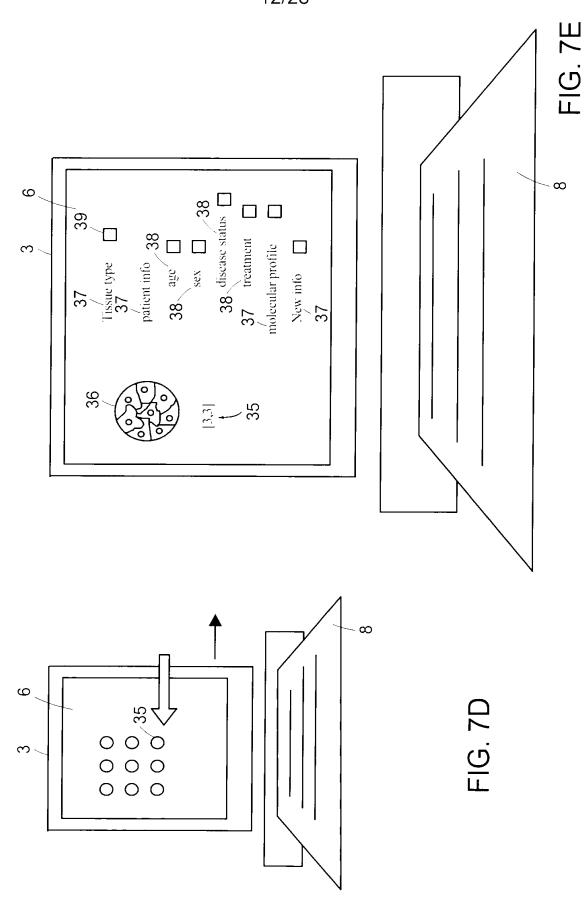


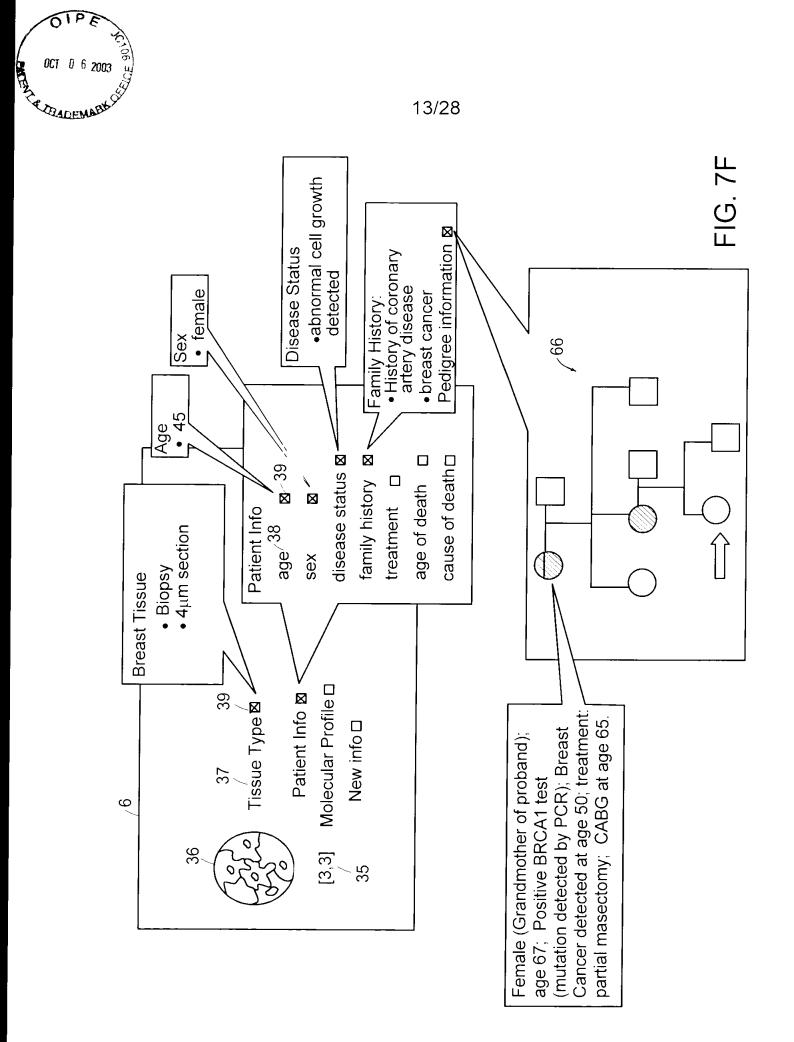


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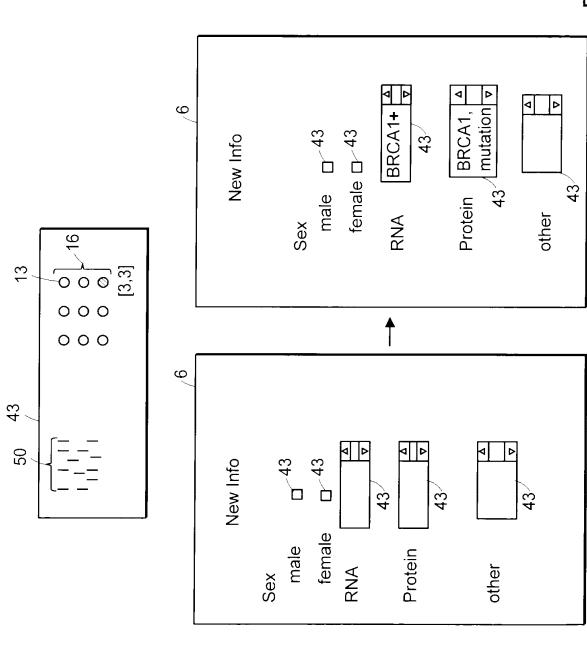
FIG. 7C

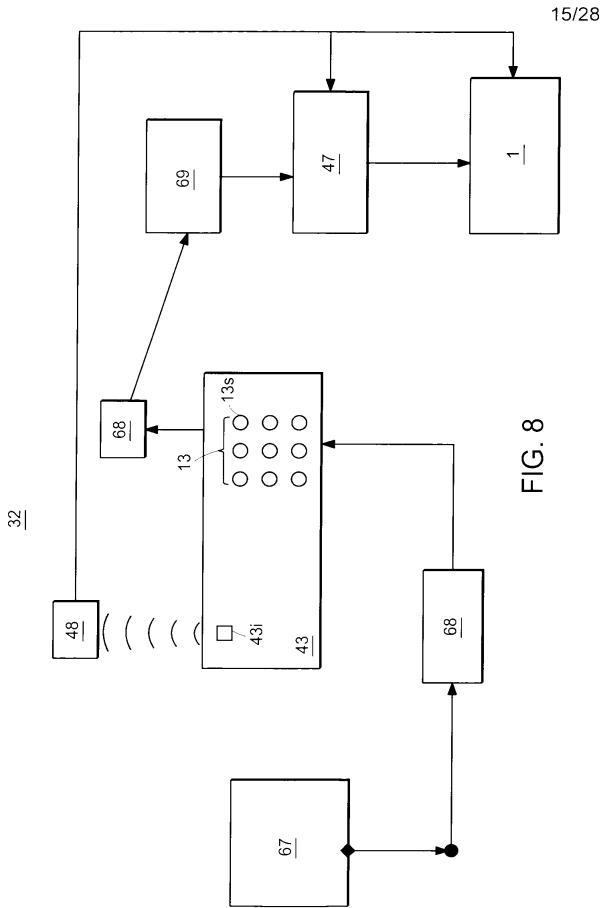










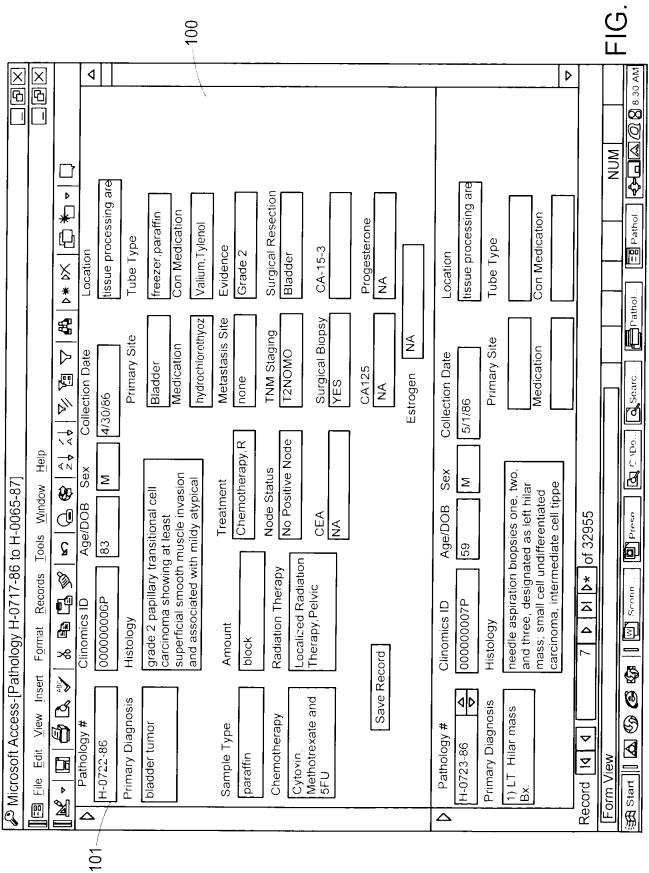




71 Cerebellum o normal ⊘ medulla cancer o 0 cortex Parkinson's disease O **Order Form** Canavan's disease o Other parameters ALS O Tissue Type submit brain 0 lung 0 heart 0-70 72 liver 0 spleen pancreas O stomach O colon 17 kidney ureter urethra prostate 0 ovaries 0 testes 0 eyes 0 tongue NAME> 0 trachea TITLE> 0 skin COMPANY NAME> 0 STREET_ADDRESS> Billing Information STATE OR PROVINCE> POSTAL CODE> □ Method of Payment Account No. ___ Title of Microarray Delivery Date: ___ Accept 19 43 000 - 13s 000 000

FIG. 9







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FIG. 11B



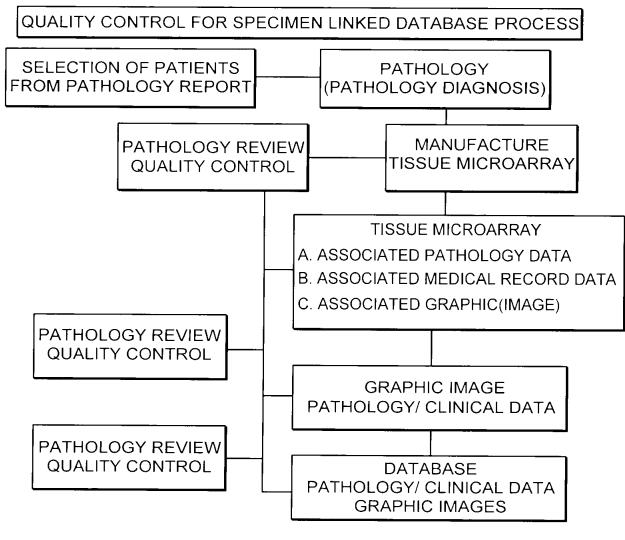


FIG. 12

FIG. 13A FIG. 13B

		SN(SNO-MED ANASITE NUMBERS				
T.02	SKIN	T.41	ARTERY, GENERAL	T.77	PROSTATE	T.Y1	T.Y1 TRUNK, PERINEUM
T.03	SUBCUTANEOUS TISSUE	T.42	AORTA	T.78	TESTES, TUNICA VAGINALIS T. Y2 THORACIC, DIAPHRAGM	T.Y2	THORACIC, DIAPHRAGM
							MEDIASTINUM
T.04	BREAST	T.43	CORONARYARTERY	T.79	SCROTUM, SPERM CORD T. Y3 THORACIC VISCERA	T.Y3	THORACIC VISCERA
					EPIDERMIS,VAS DEF	T.Y4	T.Y4 ABDOMEN, PERITONEU
							RETROPERITONEUM
90.⊤	BONE MARROW	T.44	PULM,ARTERY	T.80	VULVA, LABIUM, CLITORIS T. Y6 PELVIS	T.Y6	PELVIS
					BARTOLINS GLAND	T.YX	T.YX PERITONEAL FLUID
T.07	SPLEEN	T.45	VERT, CAROTID, CEREBR, TEMPOR.	T.81	VAGINA, HYMEN	T.Y1	T.Y1 SYNOVIAL FLUID
·			BASILOR ARTERIES			T.2X	T.2X UPPER RESP FLDS
T.08	LYMPH NODES	T.46	ILIAC, RENAL, MESSENTERIC ARTERY	T.82	UTERUS	T.2Y	T.2Y LOWER RESP FLDS
T.09	LYMPHATICS	T.47	POPLITEAL ARTERY	T.83	CERVIX	T.6X	T.6X GI FLDS, SPACES
T.1	BONE	T.48	VEIN	T.84	ENDOMETRIUM	T.6Y	T.6Y GI CONTENTS
T.12	SYNOVIUM,JOINT	T.49	VEIN	T.85	MYOMETRIUM	T.7X	T.7X URINE TRA.FLO. SPACE
T.13	MUSCLE	T.50	DIGESTIVE SYSTEM	T.86	FALLOPIAN TUBE	T.7Y	T.7Y MALE GENT FLD, SPACE
T.15	CARTILADGE	T.51	MOUTH, PALATE, ORAL	T.87	OVARY	T.8X	T.8X FEM.GENT FLD.SPACE
T.16	BURCA	T.52 LIP		T.88	PLACENTA, UMBCORD T.8Y PLACENTA, FETAL FLD	T.8Y	PLACENTA, FETAL FLD
T.17	TENDON	T.53	TONGUE	T.89	FETUS	T.XO	T.XO NERVOUS SYSTEM
T.18	LIGAMENT, FASCIA T.54	T.54	GUM,TOOTH,GINGIVA	T.91	PITUITARY	T.YO	BODY AS A WHOLE
T.19	SOFT TISSUE	7.55	PAROTID, SALIV GLND	T.93	ADRENAL		

FIG. 13A

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Ľ	: - :				
1.56 LIVER	ER		T.96	THYROID	
SINUS, ACESSORY T.57 GALLBLAE	LLBLAE	BLADDER	T.97	PARATHYROID	
T.58 EXTRAHER	TRAHER	EXTRAHEPATIC BILE DUCT	T.98	THYMUS	:
T.24 VOC.CRD.LARY., EPIGLT T.59 PANCREAS	NCREA	S	T.99	T.99 ISLET OF LANGERHANS	
T.60 PHARYNX	ARYN		T.0X	BLOOD	
T.61 TONSIL,A	NSIL,A	TONSIL, ADENOIDS	T.1X	FIBRO, ADIPOSE TISSUE	
				CONNECTIVE TISSUE	
T.62 ESOPHAGUS	OPHA(SUS	T.Y8	T.Y8 UPPER EXTREM.	
T.63 OMENTUM	ENTUM	OMENTUM, STOMACH, PYLORUS T.Y9 LOWER EXTREM.	T.Y9	LOWER EXTREM.	
T.64 SM.INTES	.INTES	SM.INTEST., DUODENUM	T.XY EAR	EAR	
CARDIO VAS SYS T.65 JEJUNUM,ILEUM	MUNUI	,ILEUM	T.XX EYE	EYE	
T.66 APPENDIX	PENDIX		T.X.1	T.X1 INTRACRAN, MENINGES	
				CSF, DURAL, VENTRIC SYS	
T.67 COLON,ME	LON,ME	COLON,MESSENTERY	T.X2	T.X2 CEREBRAL, BRAIN	
				CORPUS CALLOSUM	
T.68 RECTUM	CTUM		T.X3	T.X3 BASAL GANGLIA	
T.69 ANUS	NS		T.X4	THALAMUS	
T.71 KIDNEY	NEY		T.X5	PONS, MIDBRAIN	
TRICUSPID VALVE T.72 RENAL PE	VAL PE	RENAL PELVIS, COCCYX	T.X6	CEREBELLUM	
T.37 PULMONIC VALVE T.73 URETER	ETER		T.X7	SPINAL CORO	
T.74 BLADDER	NDDER		T.X8	T.X8 CRANIAL NERVE, OPTIC	
T.75 URETHRA	ETHR/		T.X9	NERVE, VAGUS NERVE	
BLOOD VESSELS T.76 PENIS	SIN		T.YO	T.YO SCALP, ORBITAL	

FIG. 13E

SNO-MED DIAGNOSIS NU	MBERS CARC	INOM	
ADENOCARCINOMA	M.8143		
ADENOCARCINOMA, ANAPLASTIC	M 8233		
ADENOCARCINOMA, CLEAR CELL	M 8313		
ADENOCARCINOMA, COLLOID	M 8483		
ADENOCARCINOMA, CYSTIC	M.8443		
ADENOSQUAMOUS CARCINOMA	M 8563		
ADENOCARCINOMA, IN-SITU	M 8142		
ADENOCARCINOMA, MUCINOUS CYST	M 8473		
ADENOCARCINOMA, PAPILLARY	M 8263		
ADENOCARCINOMA, UNDIFFER	M 8233		
ADENOCARCINOMA, SIGNET RING	M 8493		
ARRHENBLASTOMA	M 8630		
ANAPLASTIC MALIGNANCY	M 8003		
ASTROCYTOMA, GRADE 1	M 9403		
ASTROCYTOMA, GRADE 2	M 9433		
ASTROCYTOMA, GRADE 3 & 4	M 9443		
ADNEXAL CARCINOMA	M 8393		
ANAPLASTIC CARCINOMA	M 8023		-
ADENOID CYSTIC CARCINOMA	M.8203		
ADAMANTINOMA	M 9310	- - - - - - - - - - 	
ALVEOLAR CARCINOMA	M 8253		
ACINAR TUMOR	M 8001		
ACINAR CARCINOMA	M 8553		
BASAL CELL CARCINOMA	M 8093		
BRONCHIOLAR CARCINOMA	M.8253		
BASALOID TRANSITIONAL CARCINOMA	M 8123		
BASAL CELL EPITHELIOMA	M 8090	- "	
CARCINOMA	M 8013		
CARCINOMA, COLLOID	M 8483		
CARCINOMA, IN-SITU	M 8012		
CARCINOMA, PAPILLARY	M.8053		
CARCINOMA, SMALL CELL	M.8043		
CARCINOSARCOMA	M.8983		
CARCINOID, MALIGNANT TUMOR	M.8243		
CARCINOMA, UNDIFFERENTIATED METS	M.8023		
CARCINOMA, UNDIFFERENTIATED	M.8023		
CHORIOCARCINOMA	M.9103		
CARCINOID TUMOR	M.8241		
CHOLANGIOCARCINOMA	M.8163		
CHONDROSARCOMA	M.9223		
CHONDROBLASTOMA	M.9230		
CRANIOPHARYNGIOMA	M.9351		
CYLINDROMA	M.8203		
CYSTADENOCARCINOMA PAPILLARY SEROUS	M.8463		
CYSTADENOCARCINOMA, PAPILLARY	M.8453		
DERMATOFIBROSARCOMA	M.8823		
DYSPLASIA	M.7600		
DUCTAL, INFILTRATING CARCINOMA	M.8503		
EPENDYMOMA	M.9391		

FIG. 14A

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12	24/2 EPIDERMOID CARCINOMA EMBRYONAL CELL CARCINOMA EPITHELOMA	28	
TRADEMA	EPIDERMOID CARCINOMA	M.8073	
	EMBRYONAL CELL CARCINOMA	M.9073	
	EPITHELOMA	M.8110	
	EWINGS SARCOMA	M.9263	
	FIBROSARCOMA	M.8823	
	FOLLICULAR CARCINOMA	M.8333	
	GIANT CELL SARCOMA	M.8803	
	GIANT CELL TUMOR	M.9040	
	GRANULOSA CELL TUMOR	M.8621	
	GLIOBLASTOMA, MULTIFORME	M.9443	
	GLIOMA	M 9383	
	GIANT CELL CARCINOMA	M.8033	
	HEMANGIOBLASTOMA	M.9161	
	HEPATOBLASTOMA	M 8973	
	HISTOCYTOMA	M.8830	
	HODGKINS	M.9653	
	HODGKINS SARCOMA	M.9683	
	HURTLE CELL CARCINOMA	M.8363	
	ISLET CELL CARCINOMA	M 8153	
	KAPOSI SARCOMA	M.9143	
	LEUKEMIA, ACUTE MYELOGENOUS	M.9865	
	LEUKEMIA, LYMPHOMA	M.9826	
	LEUKEMIA	M 9807	
	LEUKEMIA, CHRONIC LYMPOMA	M 9827	
	LEIOMYOSARCOMA	M.8893	
	LYMPHOMA, LYMPHOCYTIC	M.9633	
	LYMPHOMA, LYMPHOCYTIC	M.9593	
	LIMPHOMA, GIANT FOLLICULAR	M.9693	
	LYMPHOSARCOMA, LYMPHOCYTIC	M 9623	
	LYMPHOMA, MALIGNANT	M.9593	
	LYMPHOMA, HISTIOCYSTIC	M.9643	
	LYMPHERITHELIOMA	M 8083	
	LYMPHOMA, T-CELL LYMPHOSARCOMA, LYMPHOCYTIC	M.9703	
		M.9613	
	LIPOSARCOMA LYMPHOMA, STEM CELL	M 8853 M 9603	
	MALIGNANT MELANOMA SPINDLE CEL		
	MENINGIOMA	M.9530	
	METASTATIC CARCINOMA	M.8016	
	MALIGNANT TUMOR	M 8003	
	METASTATIC MALIGNANT TUMOR	M 8006	
	MEDULLOBLASTOMA	M 9473	
	MALIGNANT MELANOMA	M.8723	
	MALIGNANT CELLS	M.6972	
	MYOBLASTOMA	M 9370	
	MUCOEPIDERMOID CARCINOMA	M 8433	
	MALIGNANT CARCINOID TUMOR	M 8243	
	MALIGNANT MESENSHYMOMA	M 8993	
	MESOTHELIOMA	M 9051	\vdash
	MYELOMA	M 9733	
	METASTATIC MELANOMA	M 8733	
		TIC 14D	

FIG. 14B



MALIGNANT GRANULOSA CELL TUMOR	M.8623
MALIGNANT PHEOCHROMOCYTOMA	M.8703
MALIGNANT MESOTHELIOMA	M.9053
METASTATIC LEIOMYOSARCOMA	M.8893
MESODERMAL TUMOR	M.8953
MIXED TUMOR	M.8940
NEUROBLASTOMA, NEUROEPITHELIOMA	1
NECROTIC TUMOR	M.5443
NEUROBLASTOMA, NEUROEPITHELIOMA	
OLIGODENDROGLIOMA	M.9453
OAT CELL CARCINOMA	M.8043
OSTEOBLASTOMA	M.9200
OSTEOMA	
OSTEONIA	M.9180
	M.9183
OSTEOIDOSTEOMA	M.9190
OSTEOCHONDROMA	M.9210
PAPILLARY CARCINOMA	M.8053
PLASMA CELL MYELOMA	M.9733
PAPILLARY METASTATIC CYATADENOCARCINOMA	
PAPILLARY TRANSITIONAL CELL CARCINOMA	
RENAL CELL CARCINOMA	M.2485
RETICULUM CELL SARCOMA	M.9643
RENAL CLEAR CELL CARCINOMA	M.8313
SQUAMOUS CELL CARCINOMA	M.8073
SARCOMA, RETICULAR CELL	M.8316
SQUAMOUS EPITHELIAL TUMOR	M.8070
SQUAMOUS CELL CARCINOMA IN-SITU	M.8072
SARCOMA, UNDIFFERENTIATED GIANT CELL	
SARCOMA, RETICULAR CELL	M.9643
SPINDLE CELL CARCINOMA	M.8033
SEMINOMA	M.9063
STROMAL SARCOMA	M.8933
TUMOR	M.8001
TUMORLET	M.8043
THYMOMA MALIGNANT	M.8583
TRANSITIONAL CELL CARCINOMA	M.8123
TERATOMA	M.9081
VERRICOUS SQUAMOUS CARCINOMA	M.8053

FIG. 14C

FIG. 15A

FIG. 15B

FIG. 15C

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FIG. 15A

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FFPE						FFPE																	FFPE				
N/A						N/A																	A/N				
307.89						291.89	305.00																293.83				
307.89	305.90	414.00										571.2											185.0	162.9			331.3
CHRONIC PAIN	DRUG ABUSE	SEVERE CORONARY ARTERY SCLEROSIS.	OLD MYOCARDIAL INFARCTION.	CARDIOMEGALY.		SEVERE CHRONIC ALCOHOLISM.	PREVIOUS HOSPITAL ADMISSION	FOR ALCOHOL INTOXICATION AND	MAJOR DEPRESSION.	SEVERE ASCITES(4,000 ML)	HEPATOMEGALY(LIVER 1,690 GM)	SEVERE CIRRHOSIS.		MULTIPLE TRAUMATIC INJURIES	SUSTAINED IN A MOTOR VEHICLE	ACCIDENT:AVULSION OF SOFT TISSUE,	BONE AND BRAIN.	MULTIPLE COMMINUTED OPEN	FRACTURES OF THE SKUIL	ALCOHOL INTOXICATION	BLOOD ETHANOL LEVEL 252 GM %		PROSTATE CANCER	SQUAMOUS CELL CANCER IT LUNG	VENTRICULAR PERITONEAL SHUNT	SECONDARY TO PROGRESSIVE	HYDROCEPHALUS FROM BRAIN MASS.
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7 42		-				93	_							2 37								_	71				
09/05/1957						05/10/1960								04/19/1962									01/09/2028				
BRAIN		PSYCH)				BRAIN	(PSYCH)							BRAIN	(PSYCH)								BRAIN	(ORGANIC)			
AU-99-82						AU-99-84		:						AU-99-90									AU-99-91				

FIG. 15B

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											FFPE															
					i						CCUPRIL.COLCHICINE,NAPRO															
			<u>.</u>								303.00	291.89								305.00						
401.9					197.7	198.3	492.8				278.00	401.9	274.9			410.9			571.2		401.9		571.2		492.8	
HYPERTENSION	HEADACHES	UNSTEADY GATE	MENTAL CONFUSION	META SQUAMOUS CELL CANCER	TO LIVER, SPLEEN, KIDNEYS,	AND BRAIN.	EMPHISEMA	ATHEROSCLEROSIS OF CORONARY	ARTERIES.	9 9	MORBID OBESITY	HYPERTENSION	GOUT	CRONIC PAIN SYNDROME	DEPRESSION	ACUTE MYOCARDIAL INFARCTION	ACUTE ALCOHOL INTOXICATION	CARDIAC HYPERTROPHY	MICROMODULAR CIRRHOSIS	ETHANOL ABUSE	HYPERTENSION	ELEVATED LIVER ENZIMES	MICRONODULAR CIRRHOSIS	SEVERE ASCITES(5LT)	SPLENOMEGALY	EMPHISEMA
											Σ									<u></u>						
											AIN 05/01/1958 41	(CH)								4IN ###### 50	(СН)					
											 BRAIN	(PSYCH								BRAIN	(PSYCH					
											 AU-99-93									AU-99-94						

FIG. 15C